

NUMBERS & ODDITIES

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-::: N&O #74, June 2004 :::-

Hi all, the numbers scene was very slow this month. There were very little logs, no new stations, no E10 strings, no exciting catches, and hardly any input from fellow monitors. Besides that, I've been on vacation so I had no time to dig for info myself. Well... you probably guessed it already, N&O is very short this time.

We are making progress with M89 but we're looking for dxers who are able to df the stations. Your help is much appreciated. The same goes for M93. It is probably from Cuba but we need more df results.

Contributors: Tom, Fritz, Jim, Takashi, Tomonori, Mark, Chris (via E2K), Sergey, Hans-Peter, Bredan, John and the Monteria LLC team. Gentlemen I owe much gratitude to you for your help.

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* VOICE STATIONS *

::: E03

IDs in the first half of the month, compiled by A1:

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	39995	39995	39995	39995	39995	39995	39995	1200
1300	00714	00714	00714	00714	00714	00714	00714	1300
1400	01120	04015	37968	79669	39995	23221	78321	1400
1500	78321	01120	04015	37968	79669	39995	23507	1500
1600	23507	78321	01120	04015	37968	79669	23221	1600
1700	23221	23507	78321	01120	04015	37968	39995	1700
1800	39995	23221	23507	78321	01120	04015	79669	1800
1900	79669	00714	23221	00714	78321	01120	00714	1900
2000	00714	39995	00714	23507	00714	78321	37968	2000
2100	37968	79669	39995	23221	23507	00714	04015	2100
2200	04015	37968	79669	39995	23221	23507	01120	2200

Second half of the month:

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	44614	44614	44614	44614	44614	44614	44614	1200
1300	44942	44942	44942	44942	44942	44942	44942	1300
1400	93599	41532	37344	10637	44614	08553	96976	1400
1500	96976	93599	41532	37344	10637	44614	67423	1500
1600	67423	96976	93599	41532	37344	10637	08553	1600
1700	08553	67423	96976	93599	41532	37344	44614	1700
1800	44614	08553	67423	96976	93599	41532	10637	1800
1900	10637	44942	08553	44942	96976	93599	44942	1900
2000	44942	44614	44942	67423	44942	96976	37344	2000
2100	37344	10637	44614	08553	67423	44942	41532	2100
2200	41532	37344	10637	44614	08553	67423	93599	2200

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::: E04

IDs in the first half of June, compiled by Tomonori:

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
2200	97223	92626	88791	92972	92626		2200
2300	92626	88791	92972	92626	57972		2300
0000		88791	92972	92626	57972	19118	0000
0100		92972	92626	57972	19118	14122	0100
1000		92626	57972	19118	14122	97223	1000
1100		57972	19118	14122	97223	92626	1100
1200		19118	14122	97223	92626	88791	1200
1300		14122	97223	92626	88791	92972	1300

Second half of the month:

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
2200	89507	00107	20150	35197	00107		2200
2300	00107	20150	35197	00107	63635		2300
0000		20150	35197	00107	63635	15510	0000
0100		35197	00107	63635	15510	18998	0100
1000		00107	63635	15510	18998	89507	1000
1100		63635	15510	18998	89507	00107	1100
1200		15510	18998	89507	00107	20150	1200
1300		18998	89507	00107	20150	35197	1300

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::: E10

No strings or special messages reported this month. Only one anomaly on 26 June, 2000 UTC a mixed KPA2/MIW2 transmission on 5170 kHz.

4270 E10 Mon 02162004 1930 USB PCD1

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::: V02A

Chris heard a nice one on 21-6 at 0200 UTC on 12165 kHz. He copied V02a with one of its famous hick-ups. "ID is 83461 43141 64381, sounds like its having trouble with the machine that makes the numbers, says a couple of numbers, then stops. Sounds like an open mic at about 0205z with Radio Havana Cuba in the background very faintly. Jumps straight into message at 0206z without saying full ID."

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::: V24

The South Korean lady has been heard on 5715 and 6215 kHz at 1400 and 1500 UTC.

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::: V25

Takashi reports a couple of transmissions of the Chinese lady.

8195 kHz at 1300 UTC
8870 kHz at 1300 and 1400 UTC
9239 kHz at 1500 UTC
9256 kHz at 1200 UTC
9639 kHz at 1200 UTC
10019 kHz at 1500 UTC.

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::: V26

The Chinese/English numbers station can still be copied in 6448//8621 kHz LSB.

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* MORSE STATIONS *

::: MX

Channel marker "R": 4325.8, 5153.8 kHz
Channel marker "V": 3658 kHz
Channel marker "F": 3798.5, 4315 kHz. This is not the Vladivostok beacon
but a marker from Europe, probably from Gdynia in
Poland. The marker has been noted on a number of
occasions during the past few years, always on 3 or
4 MHz frequencies. This month the station popped up
on 10-12 June. We are still trying to get a fix on
the station for a positive identification. Your
help is appreciated.

Cluster beacons:

"S": 5153.9, 7038.9, 10871.9, 13527.9, 16331.9 kHz
"F": 5154.2, 8495.2, 10872.2, 13528.2, 16332.2 kHz
"K": 8495.3, 16332.3 kHz
"M": 5154.4, 8495.4, 10872.4, 16332.4 kHz

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::: M03C

9179 kHz, 1330 UTC, 3-6: 184/34 R5 == 5FGx34 == msg rptd === 0 0 0

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::: M10

5077 kHz, 23-6, 1912 UTC, ID 919/37
5738 kHz, 14-6, 2110 UTC, in progress
5738 kHz, 16-6, 2100 UTC, ID 688/29
6781 kHz, 2-6, 0555 UTC, in progress
8143 kHz, 31-5, 1930 UTC, ID 579/35
7380 kHz, 31-5, 1415 UTC, ID 814/23 081/28
13405 kHz, 6-6, 1530 UTC, ID 774/22 432/31

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::: M12

6782 kHz, 1-6, 1600 UTC, ID 749/141
7657 kHz, 1-6, 1620 UTC, in progress
9164 kHz, 27-5, 1830 UTC, in progress

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::: M13

03-06, Thu, 2000 UTC, 13257 kHz, 253 (R5) BT 240 23 BT
04-06, Fri, 2000 UTC, 13257 kHz, 253 (R5) BT 240 23 BT

04-06, Fri, 2145 UTC, 6933 kHz, 757 (R5) BT 262 2. BT
05-06, Sat, 0400 UTC, 8677 kHz, 284 (R5) BT 237 24 BT
06-06, Sun, 1900 UTC, 12325 kHz, 261 (R5) BT 281 21 BT
06-06, Sun, 2000 UTC, 12325 kHz, 261 (R5) BT 281 21 BT
(rpt of 1900 UTC on 12325 kHz)
10-06, Thu, 2000 UTC, 13158 kHz, 714 (R5) BT 237 22 BT
21-06, Mon, 1900 UTC, 11612 kHz, 517 (R5) BT 242 21 BT
21-06, Mon, 2000 UTC, 11612 kHz, 517 (R5) BT 242 21 BT
22-06, Tue, 1900 UTC, 11612 kHz, 517 (R5) BT 242 21 BT
22-06, Tue, 2000 UTC, 11612 kHz, 517 (R5) BT 242 21 BT
(rpt of 1900 UTC on 11612 kHz)

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::: M14

Reported on 11070 kHz, on 23-6 at 1535 UTC, in progress. Ends with:
549 549 130 130 0 0 0 0 0

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::: M18

Still on 4503 kHz

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::: M21

5221.5 and 5772 kHz, id "0"
9222 kHz, id "3"
3809.5 kHz, id "8"

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::: M22

The usual bunch, also heard in June: 2680, 2800, 4241, 4331, 5159,
7379, 8103, 10046, 12984 kHz.

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::: M23

Copied by Hans-Peter on 12880 kHz at 1009 UTC (2-6), sending "951" till
1010 UTC. Possibly M23.

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::: M51

Frequencies	date	time
4440//4885	9-6	1920 UTC
4481	27-5	1540 UTC
4498//5018	21-6	1541 UTC
4582//6849	15-6	2130 UTC
4769//5925	24-6	0735 UTC
4769//5925	22-6	1510 UTC
5018	17-6	2125 UTC
5018//4498	24-6	0930 UTC
5055//5314	26-5	1530 UTC
5055//5314	27-5	0625 UTC
5121	31-5	1410 UTC
5121//5905	1-6	1525 UTC
5121//5905	2-6	0610 UTC
5127	16-6	2110 UTC
5192//5377	22-6	1500 UTC
5192//5377	23-6	1510 UTC
5192//5377	24-6	0620 UTC
5262	26-5	0600 UTC
5337//5374	24-6	1507 UTC
5474	10-6	2130 UTC
5838//5893	31-5	1350 UTC
5838	2-6	1640 UTC
5838	8-6	2100 UTC
5905//5121	1-6	1525 UTC
5905//5121	2-6	0610 UTC
6914//6975	1-6	1350 UTC
6914//6975	3-6	1507 UTC
6945	31-5	1500 UTC

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::: M62

3485 kHz, 1-6/10-6: B3ET B3ET B3ET = RNJ5 RNJ5 RNJ5 + QSA 0/1
3485 kHz, 11-6/20-6: J7XD J7XD J7XD = D3QK D3QK D3QK + QSA 0/1
3485 kHz, 21-6/30-6: QR2U QR2U QR2U = KP6F KP6F KP6F + QSA 0/1
1732 kHz, again not heard this month.

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::: M89

"V LA5S LA5S LA5S DE NH8T NH8T" on 4874, 5383, 7300, 7307, 7310,

8042 kHz

"V MW4D MW3D MW3D DE 2SLC 2SLC" on 3330//4440 and 5588//7074 kHz

"V BFR7 BFR7 BFR7 DE 4XML 4XML" on 5588, 10820, 10822 kHz

"V IBEH IBEH IBEH DE L4FC L4FC" on 6508.2, 9343.5, 9349.7 kHz

"V CP17 CP17 CP17 DE L9CC L9CC" on 7079.4, 7052.2, 7060.2, 7083.2,
9267, 9437 kHz.

The above mentioned stations have been around for years. Although not confirmed (yet) it is believed that this is a Chinese naval network. Extensive direction finding activities have pinpointed the transmitter sites near Guangzhou, Qingdao and the Dalian/Lushan areas. These areas strengthen the impression that the navy is involved. Qingdao is the HQ of China's North Sea Fleet, while Lushan is another major base of the North Sea Fleet and Dalian is one of the largest training facilities of the navy. Guangzhou is one of the largest bases of the South Sea Fleet.

L9CC, NH8T, 2SLC seem to originate from the Dalian/Lushan area; 4XML from Qingdao and L4FC from Guangzhou. It is however quite possible that all callsigns are being transmitted via all stations. We cannot ignore the possibility that there are more transmitter sites than these three.

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::: M93

There seems to be a pattern, at least the first two Thursdays of every other month at 1100, 1300 and 2100 UTC.

April - 14377 kHz

May - ???

June - 14977 kHz

It seems that the station has a great liking for a 14x77 frequency.

Log:

14977 kHz, 1845-1900 UTC, 3 June. Morse 20 wpm. 5FGs (non cut #s) traffic. No discernible postamble.

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* VARIOUS MODES *

S28: Buzzer on 4625 kHz

S30: Pip on 3756 kHz

XSW: Squeaky Wheel on 3828.9 kHz

XSL: Japanese Slot Machine on 6250, 6417, 6445, 8313, 8588, 8703.5 kHz

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::: XWP - HF OCEAN SURFACE RADAR

The radar is still using the same set of frequencies but a different schedule than last year. I have followed it during a couple of evenings and found the following:

1700 UTC: 8034 kHz
1900 UTC: 6818//6900 kHz
2000 UTC: 6900 kHz. Moved to 8034 kHz at 2002 UTC (20-6)
2002 UTC: 8034 kHz
2100 UTC: 6818//9250 kHz
2200 UTC: 8158//9250 kHz
2300 UTC: 8158//9250 kHz

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::: JAMMERS

Iran : 3875, 3880, 3915, 3940, 4250, 4375, 7490 kHz
Cuba : 6030, 7365, 7405 and harmonics on 12060, 14670, 14810, 18090 and 22095 kHz
China : I received a note from Brendan who writes that he heard the Chinese Music Jammer on several frequencies that are not in the list that was published in N&O #52, namely 7185, 9780, 11665, 11925, 11950, 12090, 13715 and 15530 kHz.
Ukraine: 100.9 MHz

Tom Norris from Tennessee supplied some info about the Havana Gurgler.

"Radio Marti - a US sponsored politically motivated anti-Castro station transmits on 6030 and 7365 kHz on the shortwave broadcast bands. Cuba regularly jams these transmissions with a jamming device that has a signal similar to gurgling water, thus the noise has come to be known the Havana Gurgle. Trouble with these jammers is they are very "dirty" and the harmonics can be heard at very strong levels on several frequencies.

The jammer for 6030 khz can be heard on 12060, 18090 regularly in the US. The jammer for 7365 can be heard regularly on 14670 and rarely on 22095. These frequencies are "nominal" since it is said that Cuba has many locations for its jamming equipment and I'm sure all the jammers are not exactly on frequency - an example is the harmonic for 6030 can be heard on 18090, but also on 18086."

Tom has sent me a couple of Gurgle samples. You can find them on the N&O website at <http://home.luna.nl/~ary>

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* UNID STATIONS *

::: 2-SECOND PIP

The unid 2-seconds pip was heard on 3115//5455//8340 kHz at 1303 UTC. Occasionally sending "Z". Also observed on 8340//10470//14425 kHz at 0926 UTC.

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::: "2"

Is the Chinese station with callsign "2" really gone or did she change frequency and is she somewhere out there waiting to be found again?

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::: SF03

Reported a couple of times during the past months. Possibly CIS military transmitting endlessly "SF03" on 3699 kHz.

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* MILITARY STATIONS *

::: RUSSIAN / CIS MILITARY STATIONS

- 18.1 RDL: Russian Military VLF Site Krasnodar
- 3531 REA4: Russian AF HQ Moscow //7959//4357 kHz.
- 4357 REA4: Russian AF HQ Moscow //3531//7959 kHz.
- 4825 All traffic in LSB. Encrypted voice numbers info in Russian transmitted every 2 min. Message example: "06 16th 534 19 in 69th for 46 2 0638 534 65 in 92nd for 46 2 in 92nd for 46 2 0709 73 in 34th for 46 2 07 75th 534 39 for 46 2"
"Nabor-61" lsb CIS (UKR?) mil 2047 counting from 1 to 0. Radio check with Lotos-05.
"000" traffic with "Vozdukh", 001, 002, 003, 004, 005, 006 with a message every minute. Example: "first five 09 in 32 to 3rd for 37". "Shpora-19" calling Lotos-05. "ASA" calling "SJA" twice in English.
- 6846 4CMR, GRAR, 6VFF, DKJU, B74U. QSX 5879 kHz.
- 7614 RGT77: Russian Military Broadcast.
= PXEDE oIFFa OGPZC KoYYD uHAZT JOINJ MKVAa NXPYa BFTCa QI00a RSBZu LBoLU POPaE = K. (

7959 REA4: Russian AF HQ Moscow //3531//4357 kHz.
8778 HTDI
9913 W5W7, ARP6.
28502.5 Traffic in LSB. Encrypted messages.

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★ INTELLIGENCE PROFILE: SWITZERLAND ★

::: BACKGROUND

Switzerland's independence and neutrality have long been honored by the major European powers, and Switzerland was not involved in either of the two World Wars. The political and economic integration of Europe over the past half century, as well as Switzerland's role in many UN and international organizations, has strengthened Switzerland's ties with its neighbors. However, the country did not officially become a UN member until 2002. Switzerland remains active in many UN and international organizations, but retains a strong commitment to neutrality.

::: GENERAL

Country name: Swiss Confederation / Switzerland
Local name : Schweizerische Eidgenossenschaft / Schweiz (German),
Confederation Suisse / Suisse (French),
Confederazione Svizzera / Svizzera (Italian)
Capital : Bern

Administrative divisions: 26 cantons; Aargau, Appenzell Ausser-Rhoden, Appenzell Inner-Rhoden, Basel-Landschaft, Basel-Stadt, Bern, Fribourg, Geneve, Glarus, Graubunden, Jura, Luzern, Neuchatel, Nidwalden, Obwalden, Sankt Gallen, Schaffhausen, Schwyz, Solothurn, Thurgau, Ticino, Uri, Valais, Vaud, Zug, Zurich

::: MILITARY BRANCHES

Army, Air Force, Frontier Guards, Fortification Guards

::: INTELLIGENCE

Swiss Intelligence Services (SIS)
Directorate for Strategic Intelligence (SND)
Military Intelligence Service (MND)
Air Force Intelligence Service (LWND)
Federal Office of Police (BAP)
Service for Prevention and Analysis (DAP).

- INTRODUCTION

This is a compilation of facts open to the public and personal experiences. The VBS (DDPS) and SND have homepages, but don't try the link for a detailed description of the SND - it does not (and presumably

never will) open. The best sources are the archives of the parliament.

::: SWISS INTELLIGENCE SERVICES (SIS)

For a long time after WW II Switzerland kept its behavior of a hedgehog and the Secret Services didn't make an exception; they were in charge at will. Before their reorganisation the services were rather a threat than a protection for the country. This remark excludes the exceptionally good job performed during WW II.

The so-called "Fichenaffäre" (surveillance scandal) 1989 however turned the country upside down. Without any political control many thousand of citizens had been filed - up to a quantity of 700.000(!) individual files. The Swiss were shocked. Finally, examination for everybody was granted - the author included. For years he had been frisked at the airport, photos were taken. They obviously did not digest my STRATCOMINT task in a time when I had negotiations for my employer in the GDR about the sale of scientific equipment for research on toxics in R.gen. A tiny ballpoint mark in my passport made customs watchful. Later on, when I could not enter a certain islamic country with my passport stamped in Israel, I got a new one - and never again have been frisked. This is just one example, how amateurish Swiss Home Intelligence acted. As a result of the political earthquake following the "Fichenaffäre", all relevant services became re-organised, the parliamentary control functions became enhanced and nowadays are rather effective.

- Connections of SIS with other organisations

As it is usual SIS too is looking for informations to trade in. Since 1971 SIS is member of the Berne Club. Intelligence office heads of 17 European countries meet annually. According to the Dutch Security Service BVD the 2000 agenda for example covered the subject of European integration.

Another organisation, which exchanges data on international political violence, is the Kilowatt Group, founded in 1977. Members are EU countries, Canada, Norway, Switzerland, CIA and FBI, South Africa and Israel with Mossad and Shin Beth. The group is dominated by Israel because of its strong position in the information exchange on Arab based terror group in Europe and the Middle East.

SIS is not mentioned as a member of the Trevi Group.

In 1990 it became clear Italy has had a secret stay-behind army named "Gladio". Founded in 1959 by the Italian Secret Service SIFAR and supported by NATO and CIA it had to be dissolved by the Italian Senat amid public protests.

However, others of those secret armies existed elsewhere:

- "Absalon" in Denmark
- "ROC" in Norway
- "SDRA8" in Belgium and - of course -
- "P-26" in Switzerland.

Support to these organisation was given by ACC (Allied Clandestine Committee), linked to SHAPE (NATO Supreme HQ Europe). The Belgian Secret Service SGR organised the last meeting in October 1990.

Swiss P-26 was completed with P-27 for Secret Communications. The crew consisted of 400 people - a number of 1000 was the target. Weapons, explosives and up-to-date equipment for nearly every possible "case" were stored in several places. No doubt the Swiss Intelligence Service was aware - or part - of the story. The question remains, how the relationship was between NATO and P-26 in a neutral country. P-26 and P-27 have been smashed 1991 by a parliamentary commission.

- SIS' STRUCTURE

The Federal Department for Defence, Civil Protection and Sports (DDPS) operates the

- Directorate for Strategic Intelligence (SND)
- Military Intelligence Service (MND)
- Air Force Intelligence Service (LWND)

The Federal Department of the Interior operates the

- Federal Office of Police (BAP)
- Service for Prevention and Analysis (DAP).

::: SND

The Directorate for Strategic Intelligence (SND) is responsible for the procurement of information from foreign countries for all Federal Departments. This includes OSINT, HUMINT and COMINT. 9 out of 10 information are of economic nature. Main target areas are the Balkans, Central Asia, India, Pakistan, Middle East and Northern Africa. The SND also collects data on the proliferation on mass destruction weapons supporting the agreement of Helsinki and others.

::: MND

The Military Intelligence Service (MND) provides COMINT and SIGINT in the interior and exterior. Some of its bases are used in parallel by the DAP. The MND will scan, locate and analyse sources of electromagnetic

waves. If necessary it is prepared to use ECM (Electromagnetic Counter Measures).

Training post for the "Funkaufklärer" (COMINT) soldiers is PE-19, the barracks in Jassbach. After basic schooling the specialists are transferred to the EKF Bat 51 to 53 (Electronic Warfare Batalions).

Candidates for STRATCOMINT must have attended training before recruitment. A privately operated school (ILT) is in charge for the Morse training. Training post is PE-20, the barracks of Heimenschwand. Once trained soldiers are transferred to EKF Bat 46. The third, important, base is located in Zimmerwald (PE-Z). The MND here works together with civil specialists from SWISSCOM and - I assume - DAP and SND.

Zimmerwald is packed with all kind of stuff:

- the usual antennas for HF/VHF/UHF reception
- dishes of ONYX system
- permanent GPS tracking station
- astronomical observatory and SLR (Satellite Laser Ranging) station
- Earth Tides Observatory
- permanent Ozon (O3) measuring station

There is a series of other, temporarily used, sites, the MND may use. Especially for COMINT on VHF there are those funny "field days" for recruits somewhere in the mountains for exercises in DF and UHF links. Locations of the stations for strategic DF are confidential and are therefore not disclosed here.

::: LWND

The Air Force Intelligence Service (LWND) seems to be a small unit, its task being the tactical reconnaissance for the Air Force itself. I didn't find any sources dealing with LWND.

::: BAP

The Federal Office of Police (BAP) will prosecute criminals as far as it is not a task for the cantonal polices (for example if explosives have been used or the trail leads to a foreign country). Informations for the BAP are procured by the DAP and - on demand and permission - by the SND. The service works closely together with SWISSCOM and the BAKOM (Swiss Authorities on Telecommunications) in all cases where criminals use cellular networks or unlicensed communication equipment. Although the DAP must apply for informations gained for example from SATCOMS, its role of course is delicate, as usual for services of MOI. The privatizing of companies like SWISSCOM adds some problems. SWISSCOM Broadcast runs all transmitters for the SRG (Swiss Radio and TV Company) - and does it also in wartimes for the emergency transmitters. SWISSCOM Broadcast staff doing their "normal" job is annually on duty on these stations.

Obviously there are many links between the services and some facilities are "double manned" giving rise for rumours. As an example one should mention the "Hoher Kasten", a mountain at the border in the Rhine valley, facing Austria. A huge antenna tower is visible. Declared as "SWISSCOM multi purpose facility", it houses VHF broadcast transmitters to serve the most western parts of Austria with their own programs, transmitters for REGA, the Swiss Rescue Airline and tracking receivers for Constant Volume Balloons (CVB) from Switzerland and Italy. Believing some sources, it was the intention of SIS to erect an impressive center for COMINT/SIGINT on that place. To my knowledge it never has been realised, but my enquiry at the BAKOM only produced the answer that they "unfortunately do not file technical details of the stations".

::: ONYX

In 1997 the Federal Council decided to complete the classical COMINT by interception of SATCOM within the borders. Switzerland has not participated in NSA's ECHELON project, although this was an option for a certain time. It has been decided to develop a tailor-made system which was called SATOS 3. The system is now in operation for a testing period and is called ONYX. In 2006 ONYX will be in full use for the SND.

ONYX has entirely been developed for COMINT/SIGINT, not for ELINT (RADAR, weapon guiding systems, etc). Switzerland is one of the believed 30 countries (in 2002) using such systems. The USA (NSA), with ECHELON (stations in US, UKUSA countries and affiliated), Great Britain GCHQ (stations in Gibraltar, Cyprus, Belize, Oman, Turkey and Australia) and France (DGSE) (stations in Dome, Kourou, Mayotte, Emirates and others) do possess global systems. Russias and Chinas possibilities are unknown.

ONYX is located in Leuk, Heimenschwand and Zimmerwald. It is operated by the SND. There are no antennas outside Switzerland. The size of the antennas is between 18 m and 4 m. How many there will be is not known, but "the number has to be doubled" (Parliamentary Commissions paper).

The SATCOM station Leuk was erected by SWISSCOM, could be accessed for guided tours and never was "secret". Since 2001 SWISSCOM abandoned the SATCOM business and sold the facilities to a US company (!).

Given the fact, that globally acting criminal organisations more and more use shortwaves (HF e-mail, etc), systems like ONYX mainly are used for the protection of economic interests.

<<<<<>>>>>

The information for this profile was compiled by one of our Central European monitors. THANX!

Sources:

- Espionage, an encyclopedia of spies and secrets
- CIA World Factbook
- various open sources on the internet

You may want to visit the official websites of SND and BAP:

- <http://internet.bap.admin.ch/>
- <http://www.vbs.admin.ch/internet/gs/snd/d/INDEX.HTM>

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* LOGS SECTION *

3150.0	E10	PCD2 USB 15-6-2004 Tue 2330 (GG)
3150.0	E10	PCD USB 17-6-2004 Thu 1930 (GG)
3292.0	M08a	M8a, weak/partially readable, i/p, not in sync with M8a on 10714 CW 29-6-2004 Tue 0100 (CrA-1)
3292.0	V02a	V2a, weak/readable, ID is 03151 07792 51752 USB 22-6-2004 Tue 0200 (CrA-1)
3292.0	V02a	V2a, weak/readable, ID is 25891 66993 28?91 USB 26-6-2004 Sat 0400 (CrA-1)
3292.0	V02a	V2a, fair/readable, ID is 19991 33156 51783, rpt of 0100 on 12119, M8a, bg USB 29-6-2004 Tue 0200 (CrA-1)
3389.0	M08a	M8a, weak/mostly readable, into message, V2a accompaniment CW 22-6-2004 Tue 0100 (CrA-1)
3389.0	V02a	SS YL, noisy signal, not quite as bad as last night, ending "Final, final." USB 22-6-2004 Tue 0100 (DM)
3389.0	V02a	V2a, fair/readable, into message, M8a accompaniment USB 22-6-2004 Tue 0100 (CrA-1)
3389.0	V02a	V2a, weak/readable, ID is 19991 33156 51783 USB 29-6-2004 Tue 0100 (CrA-1)
3415.0	XP	0-msg AM 3-6-2004 Thu 2020 (HFD)
3756	S30	The Pip CW 19-6-2004 Sat 2226 (AB)
3798.5	MX	Channel marker "F". Not Vladivostok. Possibly from Gdynia CW 10-6-2004 evening (TD)
3828.9	XSW	Squeaky Wheel channel marker CW 19-6-2004 Sat 2100
3926.0	M08a	(already in progress - no calls copied) CW 2-6-2004 Wed 1000 (MS)
3926.0	M08a	ID 22621 85801 47081 (AR=OE, BT=K) CW 4-6-2004 Fri 1000 (MS)
4015.0	E10	CI02//6912 USB 2-6-2004 Wed 0045 (BS4)
4015.0	E10	VLB2 USB 17-6-2004 Thu 1945 (GG)
4017.0	V02a	V2a, weak/readable, into message USB 22-6-2004 Tue 0300 (CrA-1)
4017.0	V02a	V2a, weak/readable, into message USB 29-6-2004 Tue 0300 (CrA-1)
4027.0	M08a	M8a, fair/readable, i/p CW 29-6-2004 Tue 0300 (CrA-1)
4028.0	M08a	M8a, strong/readable, into message CW 22-6-2004 Tue

0300 (CrA-1)

4028.0 V02a Usual YL Spanish 5# sets. Off mid set at 0328. USB 5-6-2004 Sat 0308 (MT2)

4028.0 V02a V2a, weak/readable, ID is 33??55 51789 8????, came on air and repeated ID twice USB 25-6-2004 Fri 0100

4165.0 E10 MIW2//5339 USB 2-6-2004 Wed 0115 (BS4)

4270.0 E10 PCD2 USB 15-6-2004 Tue 2330 (GG)

4270.0 E10 PCD USB 17-6-2004 Thu 1930 (GG)

4315 MX Channel marker "F". Not Vladivostok. Possibly from Gdynia CW 11-6-2004 0500 (KB)

4325.8 MX Channel marker "R" CW 19-6-2004 Sat 2221 (AB)

4329.0 V02a S8 here USB 23-6-2004 Wed 0400 (ZW)

4329.0 V02a V2a, weak/readable, ID is 82293 13752 45342, weak M8a in bg USB 23-6-2004 Wed 0400 (CrA-1)

4329.0 V02a USB 30-6-2004 Wed 0400 (DM)

4329.0 V02a Started CW M8a for 15 seconds then switched to voice V2a; S7 USB 30-6-2004 Wed 0400 (ZW)

4461.0 E10 FTJ 57 SVGRE USB 2-6-2004 Wed 0100 (BS4)

4461.0 E10 FTJ 39 FQLGO strong USB 15-6-2004 Tue 2330 (GG)

4461.0 E10 FTJ 2 msgs : 29 AODVW/13 QGCDF USB 17-6-2004 Thu 1930 (GG)

4461.0 E10 FTJ 29 OBQIT USB 20-6-2004 Sun 2330 (GG)

4461.0 E10 FTJ 29 OBQIT USB 21-6-2004 Mon 2330 (GG)

4461.0 E10 FTJ 29 XDNV (followed by bursts) USB 23-6-2004 Wed 2330 (GG)

4461.0 E10 FTJ USB 25-6-2004 Fri 2330 (GG)

4461.0 E10 FTJ2 USB 26-6-2004 Sat 2330 (GG)

4463.0 E10 FTJ2 USB 17-6-2004 Thu 1900 (GG)

4479.0 V02a V2a, weak/readable, into message, CODAR sweeping across freq USB 23-6-2004 Wed 0300 (CrA-1)

4479.0 V02a Good signal S7 USB 30-6-2004 Wed 0300 (ZW)

4479.0 V02a V2a, weak/readable, into message USB 30-6-2004 Wed 0300 (CrA-1)

4560.0 E10 YHF 21 IYJ?F USB 17-6-2004 Thu 1900 (GG)

4625 S28 The Buzzer 19-6-2004 Sat 2222 (AB)

4780.0 E10 KPA2//6370 USB 2-6-2004 Wed 0115 (BS4)

4780.0 E10 SYN2 USB 17-6-2004 Thu 1945 (GG)

4880.0 E10 ULX 56 FNUHH USB 2-6-2004 Wed 0030 (BS4)

4880.0 E10 ULX2 USB 17-6-2004 Thu 1930 (GG)

4880.0 E10 ULX 29 AONZA (same msg as exactly 3 months before!) USB 28-6-2004 Mon 2000 (JS3)

4973.0 S21 973, //5373 AM 17-6-2004 Thu 1742 (HFD)

5074.0 M45 074-243/34=36136, //5474 CW 22-6-2004 Tue 1702 (HFD)

5091.0 E10 JSR 35 JTCZQ with EZI2 mixup at beginning of call-up USB 17-6-2004 Thu 1900 (GG)

5091.0 E10 JSR 105 FFKCR USB 17-6-2004 Thu 1930 (GG)

5153.9 MX Cluster beacon "S" CW 19-6-2004 Sat 2216 (AB)

5170 E10 MIW2/KPA2 mixed AM 26-6-2004 Sat 2003 (AB)

5170.0 E10 SYN2//6930 USB 2-6-2004 Wed 0045 (BS4)

5170.0 E10 KPA2 USB 15-6-2004 Tue 1815 (GG)
5230.0 E10 VLB2 USB 2-6-2004 Wed 0045 (BS4)
5230.0 E10 VLB2 USB 17-6-2004 Thu 1945 (GG)
5230.0 E10 VLB2 USB 23-6-2004 Wed 0047 (TN)
5339.0 E10 MIW2//4165 USB 2-6-2004 Wed 0115 (BS4)
5339.0 E10 MIW2 USB 15-6-2004 Tue 1815 (GG)
5373.0 S21 973, //4973 AM 17-6-2004 Thu 1742 (HFD)
5435.0 E10 ART2 USB 2-6-2004 Wed 0130 (BS4)
5435.0 E10 ART2 USB 15-6-2004 Tue 2330 (GG)
5435.0 E10 ART2 USB 17-6-2004 Thu 1900 (GG)
5435.0 E10 ART2 USB 17-6-2004 Thu 1930 (GG)
5437.0 E10 ART 18 ZBMLJ USB 4-6-2004 Fri 0030 (GG)
5437.0 E10 ART 18 ZBMLJ USB 5-6-2004 Sat 0030 (GG)
5437.0 E10 ART 18 ZBMLJ USB 6-6-2004 Sun 0030 (GG)
5437.0 E10 ART 18 ZBMLJ USB 7-6-2004 Mon 0030 (GG)
5437.0 E10 ART 18 ZBMLJ USB 8-6-2004 Tue 0030 (GG)
5437.0 E10 ART 42 CZNYG USB 10-6-2004 Thu 0030 (GG)
5437.0 E10 ART 18 AYQQM USB 12-6-2004 Sat 0030 (GG)
5437.0 E10 ART 18 AYQQM USB 13-6-2004 Sun 0030 (GG)
5437.0 E10 ART 18 AYQQM USB 13-6-2004 Sun 0030 (GG)
5437.0 E10 ART 9 GYVRQ (a bit off frequency) USB 21-6-2004 Mon
0030 (GG)
5437.0 E10 ART 9 GYVRQ USB 21-6-2004 Mon 0030 (GG)
5437.0 E10 ART 106 FMJQB USB 24-6-2004 Thu 0030 (GG)
5437.0 E10 ART 106 FMJQB USB 25-6-2004 Fri 0030 (GG)
5437.0 E10 ART 106 FMJQB (a bit off frequency) USB 26-6-2004 Sat
0030 (GG)
5437.0 E10 ART 106 FMJQB USB 27-6-2004 Sun 0030 (GG)
5465.8 MX Channel marker "R" CW 19-6-2004 Sat 2221 (AB)
5474.0 M45 074-243/34=36136, //5074 CW 22-6-2004 Tue 1702 (HFD)
5762.0 V02a V2a, fair/readable, into message, weak V2a in bg USB
26-6-2004 Sat 0400 (CrA-1)
5771.0 V02a V2a, weak/mostly readable, i/p USB 26-6-2004 Sat 1500
(CrA-1)
5800.0 V02a distorted with tape ghosting AM 28-6-2004 Mon 0305
5820.0 E10 YHF 21 IYJ?F USB 17-6-2004 Thu 1900 (GG)
5820.0 E10 YHF 107 WEPHN USB 17-6-2004 Thu 1930 (GG)
6250.0 XSL Slot machine, weak, S1 USB 23-6-2004 Wed 1130 (ZW)
6270.0 E10 ULX2//7760 USB 2-6-2004 Wed 0100 (BS4)
6270.0 E10 ULX2 USB 17-6-2004 Thu 1930 (GG)
6270.0 E10 E10, fair/readable, calling ULX2, null message USB
24-6-2004 Thu 0100 (CrA-1)
6370.0 E10 KPA2//4780 USB 2-6-2004 Wed 0115 (BS4)
6379.0 M22 into traffic CW 23-6-2004 Wed 0035 (TN)
6379.0 M22 CW 23-6-2004 Wed 0135 (TN)
6379.0 M22 CW 23-6-2004 Wed 0145 (TN)
6379.0 M22 CW 23-6-2004 Wed 0210 (TN)
6417.0 XSL slot machine, weak, S1 USB 23-6-2004 Wed 1130 (ZW)

6445.0 XSL slot machine, weak, S1 under QRM USB 23-6-2004 Wed 1130 (ZW)
6498.0 E10 PCD 41 S?ZHB USB 15-6-2004 Tue 1800 (GG)
6758.0 S17C 58031 AM 1-6-2004 Tue 1250 (HFD)
6758.0 S17C 54033 AM 5-6-2004 Sat 1250 (HFD)
6758.0 S17C 58034 AM 10-6-2004 Thu 1250 (HFD)
6758.0 S17C 66034 AM 12-6-2004 Sat 1250 (HFD)
6758.0 S17C 56038 AM 13-6-2004 Sun 1250 (HFD)
6758.0 S17C 83032 AM 14-6-2004 Mon 1250 (HFD)
6758.0 S17C 65033 AM 18-6-2004 Fri 1250 (HFD)
6758.0 S17C 66034 AM 20-6-2004 Sun 1250 (HFD)
6758.0 S17C 58034 AM 22-6-2004 Tue 1250 (HFD)
6758.0 S17C 67034 AM 24-6-2004 Thu 1250 (HFD)
6758.0 S17C 66034 AM 28-6-2004 Mon 1250 (HFD)
6758.0 S17C 6904? AM 29-6-2004 Tue 1250 (HFD)
6780.0 M01 025 CW 13-6-2004 Sun 0700 (HFD)
6818 XWP HF Ocean Surface Radar 20-6-2004 Sun 1900 (AB)
6818 XWP HF Ocean Surface Radar // 9250 kHz 20-6-2004 Sun 2100 (AB)
6840.0 E10 EZI2//9130 USB 2-6-2004 Wed 0100 (BS4)
6840.0 E10 EZI Group 96 LLEDG //9130 USB 12-6-2004 Sat 0130 (DM)
6840.0 E10 EZI USB 12-6-2004 Sat 0230 (DM)
6840.0 E10 EZI 44 LMYOB USB 15-6-2004 Tue 2330 (GG)
6840.0 E10 EZI2 USB 17-6-2004 Thu 1930 (GG)
6840.0 E10 EZI2 USB 20-6-2004 Sun 0100 (DM)
6840.0 E10 EZI message 28 (missed) message 71 OBUAD USB 20-6-2004 Sun 0130 (DM)
6840.0 E10 EZI ? in noise USB 23-6-2004 Wed 0133 (TN)
6855.0 V02a V2a, fair/readable, ID is 68791 42211 23466 USB 21-6-2004 Mon 0300 (CrA-1)
6855.0 V02a V2a, fair/readable, ID is 68792 20841 05591, family radio on 6855 at 0305z USB 28-6-2004 Mon 0300 (CrA-1)
6855.0 V02a AM 28-6-2004 Mon 0303 (TN)
6855.0 V02a under SWBC station AM 28-6-2004 Mon 0305 (TN)
6887.0 G06 842-657/39=97320 AM 24-6-2004 Thu 1830 (HFD)
6900 XWP HF Ocean Surface Radar, s/off 2002 UTC. Moved to 8034 kHz 20-6-2004 Sun 2000 (AB)
6912.0 E10 CI02//4015 USB 2-6-2004 Wed 0045 (BS4)
6912.0 E10 CI02 AM 5-6-2004 Sat 1845 (JS3)
6912.0 E10 CI02 USB 17-6-2004 Thu 1945 (GG)
6912.0 E10 CI02// USB 23-6-2004 Wed 0046 (TN)
6930.0 E10 SYN2//5170 USB 2-6-2004 Wed 0045 (BS4)
6930.0 E10 SYN2 AM 5-6-2004 Sat 1845 (JS3)
6930.0 E10 SYN2 USB 17-6-2004 Thu 1945 (GG)
6930.0 E10 SYN2 USB 23-6-2004 Wed 0046 (TN)
6933.0 M13 757 (R5) BT 262 2. BT (extremely weak, missed GC) CW 4-6-2004 Fri 2145 (MS)
6959 E03 LP. Id 67423 USB 19-6-2004 Sat 2200 (AB)
6959.0 E03 08533 USB 15-6-2004 Tue 1800 (GG)

6959.0 E03 44947 USB 17-6-2004 Thu 1900 (GG)
7038.9 MX Cluster beacon "S" CW 19-6-2004 Sat 2216 (AB)
7322.0 E10 FTJ 2 msgs : 29 AODVW/13 QGCD USB 17-6-2004 Thu 1930 (GG)
7519.0 M08a M8a, weak/partially readable, caught tailend CW
28-6-2004 Mon 1300 (CrA-1)
7526.0 M08a M8a, fair/readable, ID is 33442 11882 69372, AR=OE
BT=K CW 22-6-2004 Tue 2200 (CrA-1)
7540.0 E10 JSR 35 JTCZQ USB 17-6-2004 Thu 1900 (GG)
7760.0 E10 ULX2//6270 USB 2-6-2004 Wed 0100 (BS4)
7918.0 E10 YHF 13 LAJID USB 2-6-2004 Wed 0130 (BS4)
7918.0 E10 YHF 49 LYHXO AM 5-6-2004 Sat 1800 (JS3)
7918.0 E10 YHF2 USB 15-6-2004 Tue 0200 (GG)
7918.0 E10 YHF 49 LYHXO USB 15-6-2004 Tue 1800 (GG)
7918.0 E10 YHF2 USB 20-6-2004 Sun 0200 (GG)
7918.0 E10 YHF USB 23-6-2004 Wed 0130 (TN)
7918.0 E10 JEQWV NSBMS AIHUG OZSOT ZTLLN USB 23-6-2004 Wed 0140
(TN)
7918.0 E10 YHF USB 23-6-2004 Wed 0200 (TN)
7926.0 M08a M8a, fair/readable, into message CW 29-6-2004 Tue 2200
(CrA-1)
8009.0 M08a ID 22649 88564 07044 (AR=OE, BT=K) CW 10-6-2004 Thu
2200 (MS)
8009.0 M08a M8a, strong/readable, into message CW 23-6-2004 Wed
2300 (CrA-1)
8010.0 M08 CW 23-6-2004 Wed 0800 (SCV)
8010.0 M08a ID 74881 61582 03252 (AR=OE, BT=K) CW 7-6-2004 Mon
0800 (MS)
8034 XWP HF Ocean Surface Radar 20-6-2004 Sun 2002 (AB)
8034 XWP HF Ocean Surface Radar 22-6-2004 Tue 1700 (AB)
8135.0 M08a ID 22642 63243 64613 (AR=OE, BT=K) CW 1-6-2004 Tue
2300 (MS)
8135.0 M08a ID 22649 88564 07044 (AR=OE, BT=K) (rpt of 2200z on
8009m) CW 10-6-2004 Thu 2300 (MS)
8135.0 M08a M8a, fair/readable, ID is 33442 11822 69372, rpt of
2200 on 7526, AR=OE BT=K CW 22-6-2004 Tue 2300
8135.0 M08a M8a, strong/readable, ID is 33445 11825 69375, BT=K
AR=OE CW 25-6-2004 Fri 2300 (CrA-1)
8135.0 M08a M8a, fair/readable, ID is 47711 64901 91064 CW
29-6-2004 Tue 2300 (CrA-1)
8136.0 M08a ID 78082 72341 85506 (AR=OE, BT=K) CW 5-6-2004 Sat
1100 (MS)
8158 XWP HF Ocean Surface Radar // 9250 kHz 20-6-2004 Sun 2200 (AB)
8158 XWP HF Ocean Surface Radar // 9250 kHz 20-6-2004 Sun 2300 (AB)
8246.5 M13a? CW 28-6-2004 Mon 0310 (TN)
8251.0 E07 246:0 AM 9-6-2004 Wed 0510 (HFD)
8251.0 E07 246:0 AM 18-6-2004 Fri 0510 (HFD)
8255.0 XSL USB 25-6-2004 Fri 1300 (TN)
8313.0 XSL slot machine, S5 USB 23-6-2004 Wed 1130 (ZW)

8313.0 XSL USB 25-6-2004 Fri 1300 (TN)
8588.0 XSL slot machine, S7, strongest on this freq here USB
23-6-2004 Wed 1130 (ZW)
8677.0 M13 284 (r5) BT 237 24 BT CW 5-6-2004 Sat 0400 (MS)
8703.5 XSL slot machine, S5 USB 23-6-2004 Wed 1130 (ZW)
8703.5 XSL USB 25-6-2004 Fri 1300 (TN)
8805.0 E10 PCD2 USB 16-6-2004 Wed 1730 (GG)
9061.0 M08a S7 here CW 10-6-2004 Thu 0400 (ZW)
9062.0 M08a Strong, S9 CW 23-6-2004 Wed 0500 (ZW)
9130.0 E10 EZI2//6840 USB 2-6-2004 Wed 0100 (BS4)
9130.0 E10 EZI 86 QBFFA, Repeat of 2130Z 30 May USB 2-6-2004 Wed
0130 (BS4)
9130.0 E10 EZI Group 96 LLEDG //6840 USB 12-6-2004 Sat 0130 (DM)
9130.0 E10 EZI2 USB 15-6-2004 Tue 1800 (GG)
9130.0 E10 EZI 44 LMY0B USB 15-6-2004 Tue 2330 (GG)
9130.0 E10 EZI 43 LMY0B USB 16-6-2004 Wed 1730 (GG)
9130.0 E10 EZI2 USB 17-6-2004 Thu 1930 (GG)
9130.0 E10 EZI2 USB 23-6-2004 Wed 0205 (TN)
9139.0 5LG ?? CW 23-6-2004 Wed 0140 (TN)
9153.0 M08a ID 69443 03232 85505 (AR=OE, BT=K) CW 4-6-2004 Fri
1000 (MS)
9153.0 M08a ID 10392 27372 52721 (AR=OE, BT=K) CW 7-6-2004 Mon
1000 (MS)
9153.0 V02a V2a, strong/readable, barely no static, into message,
weak V2a in bg AM 25-6-2004 Fri 1300 (CrA-1)
9202.0 E10 YHF2 USB 20-6-2004 Sun 0200 (GG)
9202.0 E10 into msg USB 23-6-2004 Wed 0205 (TN)
9238.0 M08a ID 48693 89181 64941 (AR=OE, BT=K) CW 7-6-2004 Mon
0900 (MS)
9250 XWP HF Ocean Surface Radar // 6818 kHz 20-6-2004 Sun 2100 (AB)
9250 XWP HF Ocean Surface Radar // 8158 kHz 20-6-2004 Sun 2200 (AB)
9250 XWP HF Ocean Surface Radar // 8158 kHz 20-6-2004 Sun 2300 (AB)
9251.0 E03 95276 95246 ...5NG read by YL...over and over...also
wobbling sound (jammer !) USB 12-6-2004 Sat 2110
9251.0 E03 08533 USB 15-6-2004 Tue 1800 (GG)
9251.0 E03 44947 USB 17-6-2004 Thu 1900 (GG)
9272.0 E06 690:0 AM 13-6-2004 Sun 1930 (HFD)
9310.0 S06 ip AM 2-6-2004 Wed 2008 (HFD)
9323.0 V02a S9+20 dB AM 10-6-2004 Thu 0400 (ZW)
9330.0 M08a (uncopiable - blocked by religious broadcast) CW
2-6-2004 Wed 1200 (MS)
9330.0 M08a (Completely blocked by AM religious broadcast) CW
4-6-2004 Fri 1200 (MS)
9330.0 M08a (QRM Blocks signal - unreadable) CW 7-6-2004 Mon 1200 (MS)
9330.0 M08a S9 + 20 dB over top of BC QRM CW 30-6-2004 Wed 0400 (ZW)
9331.0 M08a ID 69441 85503 73244 (AR=OE, BT=K) CW 2-6-2004 Wed
1000 (MS)
9331.0 M08a good signal, S9 CW 23-6-2004 Wed 1200 (ZW)

9331.0 V02a QRM from RTTY but very readable at S9+20db AM
 14-6-2004 Mon 0006 (Vambo)
 9476.0 E07 246:0 AM 18-6-2004 Fri 0530 (HFD)
 9950.0 E11 E11, fair/readable, ID is 183, no message USB
 22-6-2004 Tue 1300 (CrA-3)
 10046.0 M22 CW 12-6-2004 Sat 0520 (TN)
 10046.0 M22 low level mail voice in background CW 23-6-2004 Wed
 0025 (TN)
 10046.0 M22 CW 23-6-2004 Wed 0140 (TN)
 10046.0 M22 VVV DE 4XZ, then tfc CW 23-6-2004 Wed 0345 (ZW)
 10046.0 M22 M22, fair/readable, repeating VVV de 4XZ CW 27-6-2004
 Sun 0000 (CrA-1)
 10046.0 M23 CW 14-6-2004 Mon 2330 (TN)
 10119.0 M08a Strong, S9+ CW 23-6-2004 Wed 0500 (ZW)
 10125.0 M08a M8a, fair/readable, i/p CW 29-6-2004 Tue 0300 (CrA-1)
 10126.0 M08a ID 69441 85503 73244 (AR=OE, BT=K) (rpt of 1000z on
 9331m) CW 2-6-2004 Wed 1100 (MS)
 10126.0 M08a ID 69443 03232 85505 (AR=OE, BT=K) (rpt of 1000z on
 9153m) CW 4-6-2004 Fri 1100 (MS)
 10126.0 M08a ID 48691 25942 72602 (AR=OE, BT=K) CW 5-6-2004 Sat
 0900 (MS)
 10126.0 M08a ID 10392 27372 52721 (AR=OE, BT=K) CW 7-6-2004 Mon
 1100 (MS)
 10234.0 M08a M8a, strong/readable, into message CW 23-6-2004 Wed
 0400 (CrA-1)
 10235.0 M08a CW 23-6-2004 Wed 0400 (ZW)
 10235.0 M08a M8a, strong/readable, ID is 41922 45062 68996 BT=K
 AR=OE CW 27-6-2004 Sun 0400 (CrA-1)
 10235.0 M08a S9 CW 30-6-2004 Wed 0400 (ZW)
 10248.0 M16 CW 23-6-2004 Wed 0145 (TN)
 10344.0 M08a ID 93391 87391 11233 (AR=OE, BT=K) CW 5-6-2004 Sat
 1100 (MS)
 10426.0 E03 USB 21-6-2004 Mon 2200 (DM)
 10446.0 M08a ID 69442 69613 85504 (AR=OE, BT=K) CW 3-6-2004 Thu
 1100 (MS)
 10446.0 V02a V2a, strong/readable, ID is 83461 43141 64381, rpt of
 0200 on 12165 USB 21-6-2004 Mon 0300 (CrA-1)
 10446.0 V02a V2a, strong/readable, into message, nasty hum on
 carrier USB 23-6-2004 Wed 0300 (CrA-1)
 10446.0 V02a V2a, fair/readable, ID is 99541 43142 64382, weak V2a
 in bg, rpt of 0200 on 1216 USB 28-6-2004 Mon 0300
 10446.0 V02a distorted signal tape ghosting AM 28-6-2004 Mon 0310
 10446.0 V02a Very strong S9+ USB 30-6-2004 Wed 0300 (ZW)
 10446.0 V02a V2a, fair/readable, ID is 54856 42976 99542 USB
 30-6-2004 Wed 0300 (CrA-1)
 10460.0 M22 == vvv de 4xz 4xz == +5LG (many msgs) to many grps CW
 7-6-2004 Mon 0001 (SW)
 10566.0 M08a ID 86731 86782 80082 (rpt of 1200z on 9330m)(did not

use the AR=OE, BT=K format, CW 2-6-2004 Wed 1300 (MS)
 10566.0 M08a ID 20563 66731 35471 (AR=OE, BT=K) CW 4-6-2004 Fri 1300 (MS)
 10566.0 M08a ID 61422 66733 35473 (AR=OE, BT=K) CW 7-6-2004 Mon 1300 (MS)
 10566.0 M08a very strong, S9 + 20 dB CW 23-6-2004 Wed 1300 (ZW)
 10566.0 M08a M8a, strong/readable, into message, pauses in middle of xmsn, then jumps back in CW 28-6-2004 Mon 1300
 10714.0 M08a M8a, strong/readable, into message, V2a accompaniment CW 22-6-2004 Tue 0200 (CrA-1)
 10714.0 M08a M8a, fair/readable, i/p CW 29-6-2004 Tue 0200 (CrA-1)
 10714.0 V02a V2a, fair/readable, into message, in between cut numbers, M8a accompaniment USB 22-6-2004 Tue 0200
 10858.0 M08a (late start - no calls copied) CW 1-6-2004 Tue 1204
 10858.0 M08a ID 20562 26783 80083 (AR=OE, BT=K) CW 3-6-2004 Thu 1200 (MS)
 10858.0 M08a ID 61421 66732 35472 (AR=OE, BT=K) CW 5-6-2004 Sat 1200 (MS)
 10871.9 MX Cluster beacon "S" CW 19-6-2004 Sat 2216 (AB)
 11018.0 XP msg AM 18-6-2004 Fri 0620 (HFD)
 11120 S06 in progress AM 26-6-2004 Sat 1818 (AB)
 11120.0 S06 149-452/407=10778 AM 12-6-2004 Sat 1800 (HFD)
 11132.0 E07 113, very weak AM 3-6-2004 Thu 2050 (HFD)
 11132.0 E07 113:1-751/44=83525 AM 17-6-2004 Thu 2050 (HFD)
 11362 XM 26-6-2004 Sat 1812 (AB)
 11470.0 E06 690:0 AM 13-6-2004 Sun 1830 (HFD)
 11470.0 E06 E6, weak/readable, sked 690, no message, 000000 AM 27-6-2004 Sun 1830 (CrA-3)
 11480.0 E06 296:0 AM 2-6-2004 Wed 2100 (HFD)
 11545 E03 LP. Id 67423 USB 19-6-2004 Sat 2200 (AB)
 11545 E03 LP in progress USB 26-6-2004 Sat 1823 (AB)
 11545.0 E03 Lincolnshire Poacher 78321 USB 12-6-2004 Sat 2000
 11545.0 E03 44947 USB 17-6-2004 Thu 1900 (GG)
 11565.0 E10 EZI USB 5-6-2004 Sat 0400 (MS)
 11565.0 E10 EZI2 USB 5-6-2004 Sat 0500 (MS)
 11565.0 E10 EZI 44 LMY0B USB 15-6-2004 Tue 2330 (GG)
 11565.0 E10 EZI2 USB 17-6-2004 Thu 1900 (GG)
 11565.0 E10 EZI2 USB 17-6-2004 Thu 1930 (GG)
 11565.0 E10 E10, weak/partially readable, into message USB 28-6-2004 Mon 0300 (CrA-1)
 11565.0 M08a ID 33811 32011 84441 (AR=OE, BT=K) CW 5-6-2004 Sat 0400 (MS)
 11565.0 M08a S9+20 dB CW 10-6-2004 Thu 0400 (ZW)
 11565.0 M08a M8a, weak/readable, into message CW 26-6-2004 Sat 0400 (CrA-1)
 11566.0 V02a V2a, weak/readable, into message USB 25-6-2004 Fri 0300 (CrA-1)
 11612.0 M13 517 (R5) BT 242 21 BT CW 21-6-2004 Mon 1900 (MS)

11612.0 M13 517 (R5) BT 242 21 BT CW 21-6-2004 Mon 2000 (MS)
11612.0 M13 517 (R5) BT 242 21 BT CW 22-6-2004 Tue 1900 (MS)
11612.0 M13 517 (R5) BT 242 21 BT (rpt of 1900z on 11612m) CW
22-6-2004 Tue 2000 (MS)
12093.0 M08a ID 20562 26783 80083 (AR=OE, BT=K) (rpt of 1200z on
10858m) CW 3-6-2004 Thu 1300 (MS)
12115.0 E07 113 AM 3-6-2004 Thu 2030 (HFD)
12115.0 E07 113:1-751/44=83525 AM 17-6-2004 Thu 2030 (HFD)
12119.0 M08a M8a, weak/mostly unreadable, covered by Rtty, into
message CW 22-6-2004 Tue 0100 (CrA-1)
12119.0 M08a QRM from RTTY signal CW 22-6-2004 Tue 0100 (DM)
12119.0 M08a M8a, fair/readable, i/p, rtty qrm CW 29-6-2004 Tue
0100 (CrA-1)
12165.0 V02a V2a, fair/readable, into mesasge, tone on carrier,
tone goes away when numbers a USB 7-6-2004 Mon 0200
12165.0 V02a V2a, fair/readable, ID is 83461 43141 64381, number
machine problems, open mic w AM 21-6-2004 Mon 0200
12165.0 V02a V2a, fair/readable, ID is 99541 43142 64382, many
mistakes tonight USB 28-6-2004 Mon 0200 (CrA-1)
12165.0 V02a AM 28-6-2004 Mon 0235 (TN)
12180.0 V02a V2a, strong/readable, into message, static free USB
23-6-2004 Wed 0200 (CrA-1)
12190.0 S06 384:0 AM 14-6-2004 Mon 2115 (HFD)
12215.0 V02a V2a, fair/readable, ID is 99541 43142 64382, operator
started xmsn on wrong freq USB 28-6-2004 Mon 0200
12325.0 M13 261 (R5) BT 281 21 BT CW 6-6-2004 Sun 1900 (MS)
12325.0 M13 261 (R5) BT 281 21 BT (rpt of 1900z on 12325m) CW
6-6-2004 Sun 2000 (MS)
12603.0 E03 3999? -QRM from strong CW source: DE SVO USB 10-6-2004
Thu 2200 (DM)
12603.0 E03 E3, fair/readable, into message USB 22-6-2004 Tue 2100
(CrA-1)
12603.0 E03 E3, weak/readable, into message USB 29-6-2004 Tue 2200
(CrA-1)
12880 M23 951 CW 2-6-2004 1009 (HPT)
12984.0 M22 5 number groups in fast CW just above the noise floor
CW 14-6-2004 Mon 0004 (Vambo)
13158.0 M13 714 (R5) BT 237 22 BT CW 10-6-2004 Thu 2000 (MS)
13257.0 M13 253 (R5) BT 240 23 BT CW 3-6-2004 Thu 2000 (MS)
13257.0 M13 253 (R5) BT 240 23 BT CW 4-6-2004 Fri 2000 (MS)
13417.0 XP XP, fair/readable, null message, ID is probably 401 AM
8-6-2004 Tue 2020 (CrA-2)
13417.0 XP XP, weak/readable, ID is 545, null message, much
weaker than 2000z xmsn AM 24-6-2004 Thu 2020 (CrA-1)
13436.0 V02a V2a, fair/readable, into message USB 22-6-2004 Tue
0100 (CrA-1)
13511.0 E07 113 AM 3-6-2004 Thu 2010 (HFD)
13511.0 E07 113:1-751/44=83525 AM 17-6-2004 Thu 2010 (HFD)

13533.0 E10 EZI 43 LMYOB USB 16-6-2004 Wed 1730 (GG)
 13940.0 S06 149-452/407=10778 AM 12-6-2004 Sat 1700 (HFD)
 14000 E10 PCD2 AM 18-6-2004 2128 (IARUMS)
 14445 M10 Sends 555 828 21 (repeated many times), then ends 14
 21 (repeated 2 x). Morse 15 wpm, 1945-2000 UTC CW
 1-6-2004 1945 (MON)
 14487.0 E03 Moderate signal S4-S5 QSB USB 10-6-2004 Thu 1300 (ZW)
 14487.0 E03 extremely weak USB 11-6-2004 Fri 1300 (ZW)
 14487.0 E03 USB 25-6-2004 Fri 1410 (TN)
 14520.0 S06 384:0 AM 14-6-2004 Mon 2015 (HFD)
 14597.0 XP XP, fair/readable, null message, ID is probably 401 AM
 8-6-2004 Tue 2000 (CrA-2)
 14598.0 XP XP, very weak/readable, null message, ID is probably
 401 AM 8-6-2004 Tue 2000 (CrA-1)
 14598.0 XP 0-msg AM 17-6-2004 Thu 2000 (HFD)
 14598.0 XP XP, weak/readable, ID is 545, null message, sigs are
 S1-S2 AM 24-6-2004 Thu 2000 (CrA-1)
 14598.0 XP XP, weak/readable, ID 454, null message AM 29-6-2004
 Tue 2000 (CrA-1)
 14620.0 V07 635:0 AM 3-6-2004 Thu 0600 (HFD)
 15682.0 E03 extremely weak; intentional SSB QRM on top USB
 11-6-2004 Fri 1300 (ZW)
 15682.0 E03 Very weak, S1 USB 24-6-2004 Thu 1300 (ZW)
 15682.0 E03 USB 25-6-2004 Fri 1411 (TN)
 16084 E03 LP in progress USB 26-6-2004 Sat 1823 (AB)
 16084.0 E03 extremely weak USB 11-6-2004 Fri 1300 (ZW)
 16084.0 E03 Extremely weak, S0 USB 24-6-2004 Thu 1300 (ZW)
 16084.0 E03 vry weak USB 25-6-2004 Fri 1412 (TN)
 16320.0 V07 635:0 AM 3-6-2004 Thu 0620 (HFD)
 18864.0 E04 in progress USB 15-6-2004 Tue 2322 (GG)
 18864.0 E04 E3a, very weak, only the tune was heard, ID is 35197
 USB 22-6-2004 Tue 2300 (CrA-1)
 18864.0 E04 E3a, fair/readable, ID is 35197 USB 22-6-2004 Tue 2300
 (CrA-2)
 21866.0 E04 E3a, weak/readable, ID is 35197 USB 22-6-2004 Tue 2300
 (CrA-2)

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